

CLAIMS

- 1 1. A scanning device comprising:  
2 a shell;  
3 a driving module;  
4 an image capturing module, driven by said  
5 driving module for capturing an image of a document,  
6 further transforming said image to digital signal;  
7 and  
8 a fixed masking module, fixedly mounted inside  
9 the shell for obstructing a light path,  
10 wherein said image capturing module is moved by  
11 said driving module to a predetermined position  
12 where said fixed marking module is mounted, for  
13 obstructing said light path, thus black calibration  
14 is conducted.
- 1 2. The scanning device of claim 1, wherein said  
2 shell comprises a transparent window, positioned at  
3 an end of said shell for placing said document.
- 1 3. The scanning device of claim 2, wherein said  
2 transparent window is a glass plate.
- 1 4. The scanning device of claim 1, wherein said  
2 driving module comprises:  
3 an actuator, positioned at one side of said  
4 driving module, for providing a driving force; and  
5 a guiding rod, mounted inside the shell for  
6 guiding said image capturing module.

1 5. The scanning device of claim 4, wherein said  
2 actuator is a motor.

1 6. The scanning device of claim 1, wherein said  
2 image capturing module comprises:  
3 a light source for propagating light; and  
4 an image sensing element for capturing said  
5 image and transforming said image into digital  
6 signals.

1 7. The scanning device of claim 6, wherein said  
2 image sensing element is a charged-couple device  
3 (CCD).

1 8. The scanning device of claim 1, wherein said  
2 image capturing module comprises:  
3 a cover; and  
4 plural reflecting plates, positioned inside  
5 said shell, for altering said light path.

1 9. The scanning device of claim 1, wherein said  
2 fixed masking module comprises a mask, mounted at a  
3 predetermined position, parallel to the movement of  
4 said image capturing module for obstructing said  
5 light path.

1 10. The scanning device of claim 1, wherein said  
2 image capturing module comprises an opening, formed  
3 in said cover for allowing said mask passing through  
4 in order to obstruct said light path.

1 11. The scanning device of claim 9, wherein said  
2 mask is not transparent.

1 12. A method for obstructing a light path by a fixed  
2 mask comprising the steps of:  
3 driving an image capturing module to a  
4 predetermined position where said fixed mask is  
5 mounted, for obstructing said light path into an  
6 image sensing element of said image capturing  
7 module;  
8 capturing said image by said image sensing  
9 element; and  
10 transforming said image to digital signals for  
11 completing black calibration.

1 13. The method of claim 12, wherein said image is a  
2 stand black image.

1 14. The method of claim 12, wherein said  
2 predetermined position is a place for a driving  
3 module to move said image capturing module to said  
4 fixed mask which said light path is obstructed.